

【NAME OF DOCUMENT】 ABSTRACT OF THE DISCLOSURE

【Abstract】

【Problem】

5 So far, sialon fluorescent materials with activated
Eu or other rare earth ions have been known as fluorescent
materials capable of being excited by blue light to emit
yellow light. The invention provides an oxy nitride
fluorescent material capable of emitting light having a
far wider range of wavelengths than ever before.

10 【Measures】

The invention provides a fluorescent material that
contains as a main component a crystal phase having the
general formula $\text{La}_3\text{Si}_8\text{N}_{11}\text{O}_4$ or $\text{La}_3\text{Si}_{8-x}\text{Al}_x\text{N}_{11-x}\text{O}_{4+x}$ where $0 < x \leq 4$,
to and in which an optically active element (M) comprising
15 one or two or more elements selected from Mn, Ce, Pr, Nd,
Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu is added and
contained as a luminescence center component.

【Selected drawing】 Figure 1